Claims

That which is claimed is:

1) An isolated nucleic acid detection reagent that is capable of detecting the presence of 1000 or more genes from Drosophila, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.

2) The detection reagent of claim 1, wherein said reagent is a nucleic acid array.

3) The array of claim 2, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.

4) The array of claim 2, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.

5) An isolated nucleic acid detection reagent that is capable of detecting the presence of 2000 or more genes from Drosophila, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.

6) The detection reagent of claim 5, wherein said reagent is a nucleic acid array.

7) The array of claim 6, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.

8) The array of claim 6, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.

9) An isolated nucleic acid detection reagent that is capable of detecting the presence of 5000 or more genes from Drosophila, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.

10) The detection reagent of claim 9, wherein said reagent is a nucleic acid array.

11) The array of claim 10, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.

12) The array of claim 10, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007),

wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.

13) An isolated nucleic acid detection reagent that is capable of detecting the presence of 10,000 or more genes from Drosophila, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.

14) The detection reagent of claim 13, wherein said reagent is a nucleic acid array.

15) The array of claim 14, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.

16) The array of claim 15, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.